

Curriculum Vitae

Czerninsky

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ACADEMIC MERITS

- . 1973-1978: UER de Médecine et Odontologie, Université de Nice: Diplôme d'Etat de chirurgien-dentiste (DMD);
- . 1979: UER de Biologie Humaine, Université de Lyon I: Master's Degree (Immunology);
- . 1980: UER d'Odontologie, Université de Lyon I: Doctorat en Chirurgie Dentaire (PhD ; Oral Biology);
- . 1987: Faculté de Médecine, Université de Göteborg, Suède: Doctorat d'Etat (PhD, Immunology);

PROFESSIONAL EXPERIENCE

- . 1986-1988: Associate Professor, Department of Pediatrics, Division of Immunology and Infectious Diseases, Emory University School of Medicine, Atlanta, Georgia, USA. and, Associate Professor, Department of Microbiology, University of Alabama at Birmingham, Birmingham, USA (joint appointments);
- . 1988 -1991: Senior Investigator, the Swedish Medical Research Council;
- . 1992-1996: Associate Professor, Department of Medical Microbiology & Immunology, University of Göteborg, Sweden;
- . 1993-1997: Research Director, L.N.S.E.R.M. Unité 80, Clinical Immunology and Transplantation, Lyon, France;
- . 1997: Associate Professor, and Head, Division of Mucosal Vaccinology, Department of Medical Microbiology & Immunology, University of Göteborg, Sweden;
- . 1998-2001: Research Director, L.N.S.E.R.M. Unité 364, Laboratory of Cellular and Molecular Immunology, Faculté de Médecine-Pasteur, Nice, France.
- . 2002- : Director, L.N.S.E.R.M., EPI 215, Laboratory of Mucosal Immunology and Vaccinology, Nice, France.

Czerninsky

EDITORIAL AND CONSULTING ACTIVITIES

Has published more than 120 papers including reviews in the field of experimental medicine, and especially in the areas of vaccinology and mucosal immunology. Guest speaker and/or chairperson at nearly 100 international conferences and symposia.

Member of the Editorial Board of *Infection and Immunity* and ad hoc referee for: *American Journal of Medicine*, *Archives of Allergy, Arthritis and Rheumatism*, *Clinical Experimental Immunology*, *Cytokine Research*, *European Journal of Immunology*, *Immunology*, *Immunology Letters*, *International Archives of Allergy and Applied Immunology*, *Journal of Immunoassay*, *Journal of Immunology*, *Journal of Immunological Methods*, *Journal of Infectious Diseases*, *J. Medical Primatology*, *Oral Immunology and Microbiology*, *Nature Medicine*, *Nature Immunology*, *Nature Biotechnology*, *Scandinavian Journal of Dental Research*, *Scandinavian Journal of Immunology*, *Vaccine*.

SELECTED PUBLICATIONS

1. Sun JB, Holmgren J, and Czerninsky C. 1994. Cholera toxin B subunit: an effective transmucosal carrier delivery system for induction of peripheral immunological tolerance. *Proc. Natl. Acad. Sci. (USA)* 91:10795-99.
2. Sun J-B, Rask C, Olsson T, Holmgren J, Czerninsky C. 1996. Treatment of experimental autoimmune encephalomyelitis by feeding myelin basic protein conjugated to cholera toxin B subunit. *Proc. Natl. Acad. Sci. (USA)*, 93: 7196-7201.
3. Bergerot I, Ploix C, Pedersen J, Moulin V, Rask C, Fabien N, Lindblad M, Mayer A, Czerninsky C, Holmgren J, Thivolet C. 1997. A cholera toxoid-insulin conjugate as oral vaccine against spontaneous autoimmune diabetes. *Proc. Natl. Acad. Sci. (USA)*, 94:4610-4614.
4. Quiding-Jarbrink M, Nordström I, Granström G, Kilander A, Jertborn M, Butcher E, Lazarovits AJ, Holmgren J, Czerninsky C. 1997. Differential expression of tissue-specific adhesion molecules on human circulating antibody-forming cells after, systemic, enteric and nasal immunizations. A molecular basis for the compartmentalization of effector B cell responses. *J. Clin. Invest.* 99:1281-1286.
5. McSorley SJ, Rask C, Pichot R, Julia V, Czerninsky C, Glaichenhaus N 1998. Selective tolerization of Th1-like cells after nasal administration of a cholera toxoid-LACK conjugate. *Eur J Immunol.* 28:424-32.
6. Czerninsky C, Anjuere F, McGhee JR, George-Chandy A, Holmgren J, Kieny MP, Fujiyashi K, Mestecky JF, Pierresite-Carle V, Rask C, Sun JB 1999. Mucosal immunity and tolerance: relevance to vaccine development. *Immunol Rev.* 170:197-222.
7. Ploix C, Bergerot I, Durand A, Czerninsky C, Holmgren J, Thivolet C. 1999. Oral administration of cholera toxin B-insulin conjugates protects NOD mice from autoimmune diabetes by inducing CD4+ regulatory T-cells. *Diabetes* 48:2150-6.
8. Tarkowski A, Sun JB, Holmdahl R, Holmgren J, Czerninsky C. 1999. Treatment of experimental autoimmune arthritis by nasal administration of a type II collagen-cholera toxoid conjugate vaccine. *Arthritis Rheum.* 42:1628-34.
9. Sun JB, Mielcarek N, Lakew M, Grzych JM, Capron A, Holmgren J, Czerninsky C 1999. Intranasal administration of a Schistosoma mansoni glutathione S-transferase-cholera toxoid conjugate vaccine evokes antiparasitic and antipathological immunity in mice. *J Immunol.* 163:1045-52.

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10. Czerkinsky C, Sun JB, Holmgren J. 1999. Oral tolerance and anti-pathological vaccines. *Curr Top Microbiol Immunol.* 236: 79-91.
11. Sun JB, Li BL, Czerkinsky C, Holmgren J. 2000. Enhanced immunological tolerance against allograft rejection by oral administration of allogeneic antigen linked to cholera toxin B subunit. *Clin Immunol.* 97:130-9.
12. Sun JB, Xiao BG, Lindblad M, Li BL, Link H, Czerkinsky C, Holmgren J. 2000. Oral administration of cholera toxin B subunit conjugated to myelin basic protein protects against experimental autoimmune encephalomyelitis by inducing transforming growth factor-beta-secreting cells and suppressing chemokine expression. *Int Immunol.* 12:1449-57.
13. Rask C, Holmgren J, Fredriksson M, Lindblad M, Nordstrom I, Sun JB, Czerkinsky C. 2000. Prolonged oral treatment with low doses of allergen conjugated to cholera toxin B subunit suppresses immunoglobulin E antibody responses in sensitized mice. *Clin Exp Allergy.* 30:1024-32.
14. Jertborn M, Nordstrom I, Kilander A, Czerkinsky C, Holmgren J. 2001. Local and systemic immune responses to rectal administration of recombinant cholera toxin B subunit in humans. *Infect Immun.* 69:4125-8.
15. Anjuere F, George-Chandy A, Audant F, Rousseau D, Holmgren J, Czerkinsky C. 2003. Transcutaneous Immunization with Cholera Toxin B Subunit Adjuvant Suppresses IgE Antibody Responses Via Selective Induction of Th1 Immune Responses. *J Immunol.* 170:1586-92.